

CONTAMINATION POTENTIAL
(MANUAL FOR EVALUATING CONTAMINATION POTENTIAL OF SURFACE IMPOUNDMENTS)

ORIGINAL
(Red)

NAME/LOCATION PIGEON POINT LANDFILL

ADDRESS NEW CASTLE CO, DEL.

NPDES# — SIC 2819+2869 LAT. 39° 42' LONG. 75° 32'

THE CONTAMINATION POTENTIAL IS LOW MODERATE **HIGH** VERY HIGH

NO. OF SITES — AGE — LINER — THICKNESS — AREA —

UNSATURATED ZONE 7^c-B WATER QUALITY 5-B GROUNDWATER AVAILABILITY 4^c-B

HAZARD OF CONTAMINANT 9-A TOTAL GROUNDWATER CONTAMINATION POTENTIAL 25

ENDANGERMENT TO CURRENT WATER SUPPLIES 6^B-B MONITORING WELLS 0

FREQUENCY OF MONITORING — SIGNIFICANT CHANGES IN GROUNDWATER —

ADVERSELY —

REMARKS:

WILMINGTON PIGEON POINT SANITARY LANDFILL, PIGEON POINT

SITE IS NOT LOCATED ON PROPERTY OF CHEMICAL PLANT PARTICIPATING IN SURVEY, BUT IS KNOWN TO HAVE BEEN USED FOR DISPOSAL FROM 1969 TO 1979. AT TIME OF USE, SITE WAS PUBLICLY OWNED. SITE IS STILL BEING USED. CHEMICAL COMPONENTS OF WASTE DISPOSED AT THIS SITE INCLUDE ACID SOLUTIONS (WITH PH < 3), BASE SOLUTIONS (WITH PH > 12), HEAVY METALS AND TRACE METALS (BORDED ORGANICALLY AND INORGANICALLY), ORGANICS, INORGANICS AND MISCELLANEOUS WASTE MATERIAL. METHODS OF DISPOSAL INCLUDE MIXED INDUSTRIAL WASTE LANDFILL, DRUMMED WASTE LANDFILL AND LANDFILL IN WHICH MUNICIPAL WASTE IS CO-DISPOSED.

References: Geologic Map No. 4—"Geology of the Wilmington Area, Delaware,
& "The Availability of Ground Water in New Castle County,
Delaware.

The site is underlain by the Columbia Formation, which includes gravelly coarse and medium sands, and the Potmac Formation, which consists of silts and clays containing interbedded sands. The water table is about 5 feet from the surface and the saturation is approximately 200 feet thick.

Groundwater is expected to flow in the direction of the Delaware River. The water is generally excellent in quality.

The hazard of contaminant rating is based on the SIC codes, Industrial Inorganic and Organic Chemicals, and the Waste Identification Numbers, 2101-3, Metals Acids, Bases, and Salts.

There do not appear to be any water supply wells, injection wells, or surface impoundments, in the vicinity of the site.



SEMS DocID 2330287

"non responsive based on revised scope"

- cc: J. Gary Gardner 3AH00
✓ Robert Allen 3AH30
Bruce Smith 3SA30
Abraham Ferdas 3EN10
Benjamin A. Lacy 3WA32

Prepared By: [Redacted]

Date: November 17, 1980